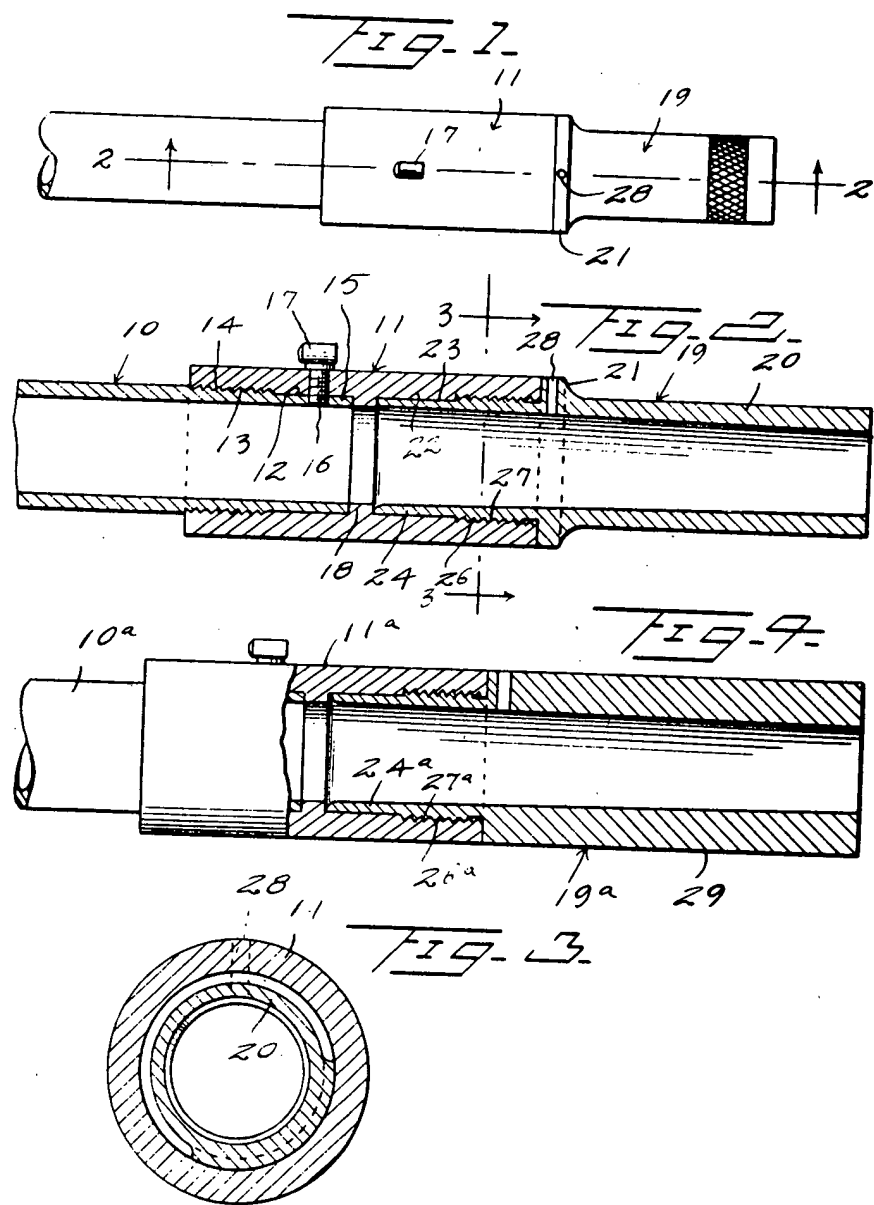


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## THE PATENT OFFICE

PATENT No. 490,721

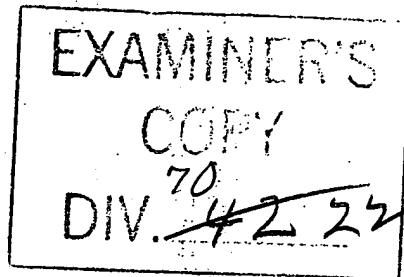
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### Gun Choke Device

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1 Claim



1 This invention relates to a choke for a shotgun barrel.

An object of this invention is to provide a choke for a shotgun barrel which when in applied position will result in a greater firing range for the gun and a different firing pattern which is determined according to the object being shot.

Another object of this invention is to provide a choke for a shotgun barrel which can be mounted on the present construction of the barrel, the outer end of the barrel being modified by forming threads on which a coupling sleeve is mounted, the choke being threaded into the coupling sleeve and formed with an unthreaded guide portion, the choke being formed with an opening for engagement by a rod so that the choke can be applied or removed when desired.

A further object of this invention is not only to provide a choke for shotgun barrels, which when in applied position will result in greater firing range for the gun, but its principal purpose is to give different patterns required by different kinds of hunting as, for example, the different kind of shot pattern of a skeet player as against a trap shooter as against, say, also, a rabbit as against a duck. In other words, the object of this device is to give the hunter the particular barrel pattern that he needs under certain circumstances which gives him a variation in the 12 gauge gun to which this particular device is attached. It eliminates, therefore, the need of having one-half dozen different gauge guns which should be one of its principle appeals.

With the above and other objects in view, my invention consists in the arrangement, combination and details of construction disclosed in the drawings and specification, and then more particularly pointed out in the appended claims.

In the drawings which illustrate embodiments of the invention,

Figure 1 is a fragmentary plan view of a shotgun barrel having a choke mounted thereon, constructed according to an embodiment of this invention,

Figure 2 is a sectional view taken on the line 2-2 of Figure 1,

Figure 3 is a sectional view taken on the line 3-3 of Figure 2; and

Figure 4 is a fragmentary side elevation, partly broken away and in section, of a modified form of choke.

Referring to the drawing, the numeral 10 designates generally the barrel of a shotgun. The barrel 10 has mounted on the outer end thereof a tubular connector or coupling member generally

2 designated as 11. The outer end of the barrel 10 is formed with a smooth peripheral surface 12, and exterior threads 13 are formed on the periphery of the barrel 10 rearwardly of the smooth surface 12.

The coupling member or sleeve 11 is formed with interior threads 14 extending from the inner or rear end thereof and is also formed with a smooth bore 15 adapted to engage the smooth surface 12 of the barrel 10. The sleeve 11 is adapted to be firmly locked in coupling position on the end of the barrel 10 by means of the threaded shank 16 of a sight member 17. The sleeve 11 at a point between the ends thereof is formed with an annular rib 18 adapted to abut against the outer end of the barrel 10 and the inner diameter of the rib 18 is substantially equal to the inner diameter of the outer end of the gun bore.

A choke member generally designated as 19 is adapted to be threaded into the outer end of the coupling member 11. The choke member 19 is formed of a cylindrical body 20 formed with a tapered bore and having an enlarged annular rib 21 on the outer surface thereof adapted to abut against the outer end of the coupling member 11. The body 20 at its inner end is formed with a reduced diameter smooth peripheral surface 22 adapted to snugly engage within the smooth bore 23 of the sleeve 11, extending outwardly from the rib 18.

The inner end of the reduced end portion 24 of the body 20 is tapered or rounded, so as to eliminate any obstructing corners within the bore of the gun and the connector 11. The outer end portion of the connector 11 is formed with interior threads 26 and the body 20 is formed with exterior threads 27 engaging with the threads 26. When the choke 19 is mounted in the connector 11 the inner end thereof will abut against the rib 18 and the exterior rib 21 will abut against the outer end of the connector 11.

The rib 21 is formed with an opening 28 for engagement by a rod or the like so that the choke 19 can be readily applied or removed.

Referring now to Figure 4, there is disclosed a slightly modified form of this invention wherein the gun barrel 10a has mounted on the outer end thereof a coupling sleeve 11a identical with the sleeve 11. A choke member 19a is threaded into the outer end of the coupling member 11a, being formed with a reduced inner end 24a having a smooth outer surface and also formed with peripheral threads 27a engaging interior threads 26a in the outer end of the coupling member 11a. In the present instance the choke member 19a ex-

tends straight out from the outer end of coupling member 11a, having a cylindrical outer surface 29.

In the mounting of this choke on the outer end meter to form the smooth surface 12 and is then threaded from the inner end of the reduced diameter portion of the gun barrel 10, the barrel is reduced in diameter portion. The coupling sleeve 11 is then threaded onto the barrel and the sleeve is locked not only by means of the threads 13 and 14, but also by means of the set screw or shank 16 formed as part of the sight member 17. The choke member 19 may then be threaded into the outer end of the coupling sleeve 11.

Instead of the hunter having differently gauged guns, differently gauged chokes may be provided, the tapers of the chokes being determined by the shooting pattern.

I do not mean to confine myself to the exact details of construction herein disclosed, but claim all variations falling within the purview of the appended claims.

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

In a shot gun barrel, external threads formed on said barrel inwardly from the outer end thereof, a coupling sleeve having internal threads formed thereon adjacent the opposite ends thereof, said coupling sleeve having one end threaded onto said

barrel threads, an internal rib carried by said sleeve intermediate the opposite ends thereof and adapted to abut against the outer end of said barrel, a choke member having external threads spaced from one end thereof threaded into the opposite end of said sleeve, said one end of said sleeve abutting said rib, and an external shoulder formed on said choke member and adapted to abut against said opposite end of said sleeve, said sleeve having a smooth inner surface between said rib and said internal threads, said choke having a smooth outer surface adjacent said one end thereof adapted to engage within said smooth inner surface of said sleeve, said choke being formed with a converging bore.

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